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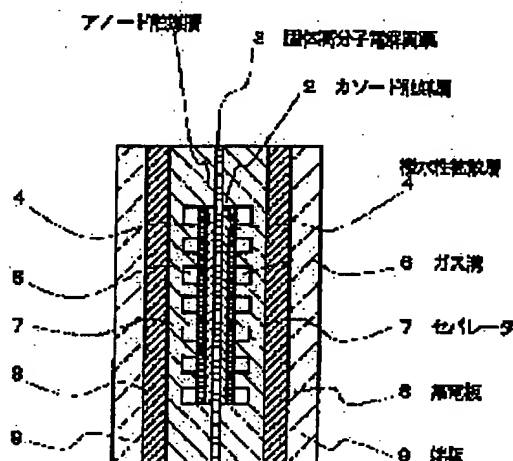
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(54) SOLID POLYMER ELECTROLYTE FUEL CELL

(57)Abstract:

PROBLEM TO BE SOLVED: To increase the allowable flow rate of water supplied together with a reaction gas, and to stably operate a fuel cell by simple flow rate control.

SOLUTION: An anode catalytic layer 1 and a cathode catalytic layer 2 are bonded to each surface of a solid polymer electrolyte film 3, a diffusion layer is arranged on the outside of each of the catalyst layers 1, 2, and they are interposed between separators 7 having gas grooves 6 to constitute a unit cell. As the diffusion layer on the anode side for supplying a mixed fluid of hydrogen and water, a water repellent diffusion layer 4 made of a water-repellent, gas-permeable conductive member having gas permeability, conductivity, and water repellency is used.



LEGAL STATUS

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